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GATE Aptitude Practice Questions Numbers

Q.No. 1	The difference between odd natural numbers is	the sum of the first 21	ı natı	aral numbers and t	he sum	of the first n
(A)	$n^2 - n$					
(B)	$n^2 + n$					
(C)	$2n^2 - n$					
(D)	$2n^2 + n$					
Q.No. 2	•	tive numbers is 100. A				number, the
(A)	80					
(B)	85					
(C)	90					
(D)	95					
Q.No. 3	The unit's place in 26	5591749 ¹¹⁰⁰¹⁶ is				
(A)	1					
(B)	3					
(C)	6					
(D)	9					
Q.No. 4	The missing numb	er in the given seque	ence	343, 1331,	_, 491	3 is
	(A) 3375	(B) 2744		(C) 2197		(D) 4096
Q.No. 5	How many integers are	there between 100 and	1000	all of whose digits	are ever	n?
	(A) 60	(B) 80	(C)	100	(D) 9	0

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(C) 4

Q.No. 6 The sum and product of two integers are 26 and 165 respectively. The difference between

Q.No. 7 $\underbrace{a+a+a+\cdots+a}_{n \text{ times}} = a^2b$ and $\underbrace{b+b+b+\cdots+b}_{m \text{ times}} = ab^2$, where a,b,n and m are

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(D) 6

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these two integers is _____.

natural numbers. What is the value of

(B) 3

(A) 2

	$\underbrace{m+m+m+\cdots}_{n \text{ times}}$	$(\underline{n+n+n})\left(\underbrace{n+n+n}_{m \text{ tim}}\right)$	$\left(\frac{1}{n} + \dots + n\right)$?	
	(A) $2a^2b^2$	(B) a^4b^4	(C) $ab(a+b)$	(D) $a^2 + b^2$
Q.No. 8	What is the missing	g number in the follo	wing sequence?	
		2, 12, 60, 24	40, 720, 1440,	_, 0
	(A) 2880	(B) 1440	(C) 720	(D) 0
Q.No. 9		•	denotes the missi the place of ■ is	ng digit in the thousandths
	(A) 0	(B) 2	(C) 5	(D) 6
Q.No. 1		of two digits. The s re interchanged. Wha		If 45 is subtracted from the
	(A) 63	(B) 72	(C) 81	(D) 90
Q.No. 1	The number of 3-d	igit numbers such tha	at the digit 1 is never	to the immediate right of 2 is
	(A) 781	(B) 791	(C) 881	(D) 891
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(A) 2	(B) 4	(C) 6	(D) 8
Q.No. 13 X is a 30 digit num have	nber starting with the dig	git 4 followed by the digit	7. Then the number X ³ will
(A) 90 digits	(B) 91 digits	(C) 92 digits	(D) 93 digits
Q.No. 14 Find the small	est number y such th	nat $y \times 162$ is a perfec	t cube.
(A) 24	(B) 27	(C) 32	(D) 36
Q.No. 15 The numeral in	the units position of	$211^{870} + 146^{127} \times 3^{424}$ is	s
		>	
Q.No. 16 Pick the odd on	e out in the following:		

Q.No. 12 The last digit of $(2171)^7 + (2172)^9 + (2173)^{11} + (2174)^{13}$ is

2, 5, 10, 17, 26, 37, 50, 64

Q.No. 17 The value of $\sqrt{12 + \sqrt{12} + \sqrt{12}}$

13, 23, 33, 43, 53

(A) 23

(A) 3.464

(A) 17

(B) 37

(B) 33

(B) 3.932

(C) 64

(C) 43

(C) 4.000

(D) 26

(D) 53

(D) 4.444



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Q.No. 19	Fill in	the miss	sing nui	mber in	the series	7		•			
	2	3	6	15	15	57.5	63	30	.a199990.		
								he average second lar			ecutive even numbers is nber?
Q.No. 21	The ne	xt term	in the s	eries 81	, 54, 36, 2	24, is	·				
					using the			7 and 9 wit	hout rep	eating	g any of them. What is
((A) 666	66660		(B) 66	666600	,Y	(C)	6666666		(D)	6666606
Q.No. 23	Wha	t is the	next n	umber	in the se	ries?	***				
	12	35	8	81	173	357					
Q.No. 24	If (1.0	01)1259	= 3.52	and (1.	.001) ²⁰⁶² =	7.85,	then	$(1.001)^{332}$	1 =		
	(A) 2	.23		(B)	4.33			(C) 11.37	7		(D) 27.64
			5								



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Answer Key

2 No	A
Q. No.	Ans.
1	В
2	D
3	A
4	С
5	С
6	С
7	В
8	В
9	В
10	В
11	С
12	В
13	A
14	D
15	7
16	В
17	С
18	С



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19	45
20	163
21	16
22	В
23	725
24	D



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